

WHAT IS CLAIMED IS:

1. A screen printing apparatus for pattern forming of a printing paste on a screen printing plate onto a substrate to be printed by moving a squeegee in a predetermined direction, comprising:

- a bag-like container in which the printing paste is charged;
- a mechanism for receiving the bag-like container and pressurizing the bag-like container;
- a printing paste supply plate provided with a printing paste supply port; and
- an elastic squeegee in which a back surface is formed at a fixed angle corresponding to an angle at a time of printing and a front surface is integrally formed with a hard thin plate,

wherein the mechanism for pressurizing said bag-like container is connected to the back surface side of said printing paste supply plate, the back surface of said squeegee is brought into contact with the printing paste supply port in the front surface side of said printing paste supply plate, and the screen printing apparatus is provided with a printing paste ^{port} supply mechanism capable of being opened and closed through a vertical movement ^{on the elastic squeegee} so as to supply a predetermined amount of printing paste, and a scraper for scraping up the printing paste on the screen printing plate.

2. A screen printing apparatus for pattern forming of a printing paste on a screen printing plate onto a substrate to be printed by moving a squeegee in a predetermined direction, comprising:

a step of moving upward the squeegee so as to open a printing paste supply port;

a step of pressurizing a container in which the printing paste is charged so as to supply a predetermined amount of printing paste;

a step of moving downward the squeegee after supplying the predetermined amount of printing paste so as to close the printing paste supply port and simultaneously arranging said squeegee on a screen printing plate;

a step of printing with the hard thin plate side of the elastic squeegee in which a front surface is integrally formed by a hard thin plate; and

a step of scraping up the printing paste on the screen printing plate by a scraper after printing, whereby the printing is carried out by repeating these steps.

3. A screen printing apparatus in which a bag-like container charged with a printing paste is manufactured by a step of welding three peripheral portions, a step of cutting an inner side of one end among three welded portions, a step of again welding a closest outer side in the cut portion, a step of bonding the cut portion by an adhesive tape, a step of charging the paste, and

a step of welding the remaining peripheral one, the bag-like container charged with the printing paste is inserted to a cartridge and set in the screen printing apparatus together with the cartridge, and the printing is carried out after the adhesive tape bonding the cut portion being peeled off.